Note:

1. Potential based on areas having wind power density (wpd) greater than 200 Watts/m^2 land availability @ 1 per cent in potential areas, and wind farm area requirement @ 12 ha/MW. In line with international practice to take sites having wpd greater than 300 W/m^2 for grid-interactive power, this potential would drop. However, off-grid applications are possible even in areas having lower wpds.
2. Identified sites having technical feasibility, not all of which may be commercially exploitable. Technical hydro potential of sites upto 25 MW station capacity has, however, been placed at 15,000 MWe.
3. With new sugar mills and modernization of existing ones, technical potential is assessed at 5000 MWe, not all of which may be commercially exploitable. Furthermore, several sugar companies/cooperatives are unable to develop bankable projects on account of their financial and liquidity positions.
4. With expansion of urban population post census 2001, current technical potential assessed at 3000 MWe. However, subsidy disbursement under the programme has been kept in abeyance on the orders of the Supreme Court until final disposal of a PIL seeking composting as the preferred route for MSW disposal.
5. Accordingly, renewable energy technical potential has been placed at 84,000 MWe, not all of which may be suitable for grid-interactive power.
6. Biomass atlas under preparation which will more accurately assess State-wise renewable energy potential from agro-residues.

Proposal for installation of solar heaters

478. SHRI S.M. LALJAN BASHA:
SHRI C. PERUMAL:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether Government have a proposal to install solar heater in 3.5 million homes;

(b) the details of this ambitious programme;

(c) how many homes presently have solar heater;

(d) the cost of this new programme;

(e) who will bear the cost; and

(f) the names of the implementing agencies?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) and (b) The Sub-group on Renewables for Urban, Industrial & Commercial Applications of the Working Group on Non-conventional Energy Sources for the Eleventh Five Year Plan has recommended installation of 10 million sq. m. of collector area for solar water heating and other applications during the Plan period. This includes 7 million sq. m. of solar collector area for domestic systems which are expected to provide hot water in around 3.5 million homes in the country.

(c) About five lakh homes are estimated to have installed solar water heaters in the country so far.

(d) and (e) The outlay for the Eleventh Plan is yet to be finalized. The cost of the systems will be borne by the users. Subsidy, if any, will be provided by the Government.

(f) The Programme will be implemented through the Indian Renewable Energy Development Agency Ltd. (IREDA), banks and financial institutions, State Nodal Agencies, urban local bodies and the manufacturers/suppliers of solar water heating systems.

Installation of bio-gas project in Andhra Pradesh

479. SHRI C. RAMACHANDRAIAH: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the details of bio-gas projects being installed in Andhra Pradesh during the last two years and the power generated from each plant during the said period;

(b) whether there are plans to install more bio-gas projects in Andhra Pradesh in the coming year; and